

FIG.1

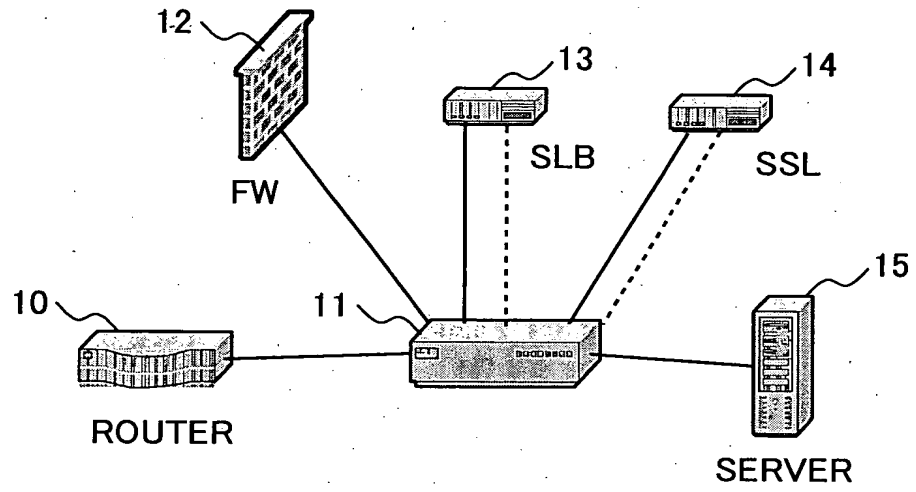


FIG.2

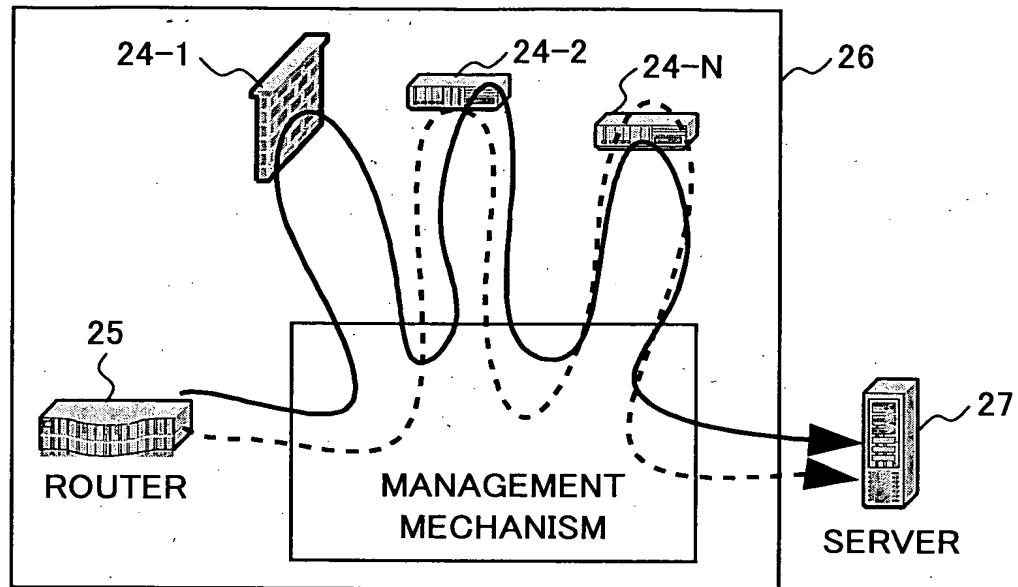


FIG.3

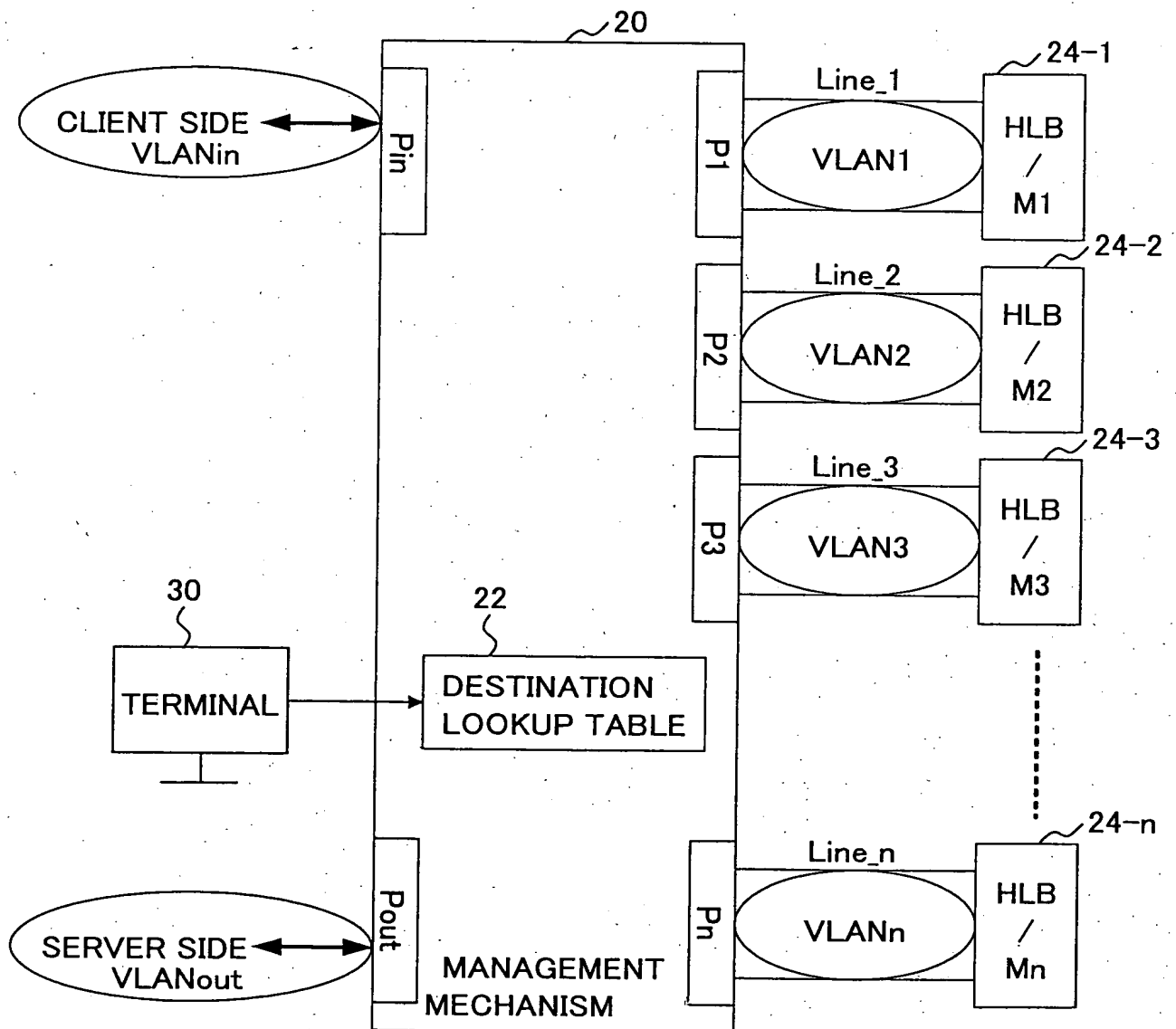


FIG.4

		SEARCH KEY	SEARCH RESULT			
		VLANtag (32bit)	VLANtag (32bit)	MAC ADDRESS (48bit)	PHYSI- CAL PORT	
ENTRY OF USER A (VIRTUAL LINK INFORMATION)	a1 LINE	VLANin_a	UP VLAN1_a	M1	P1	UP- DIRECTIONAL ROUTING PATH
	a2	UP VLAN1_a	UP VLAN2_a	M2	P2	
	a3	UP VLAN2_a	UP VLAN3_a	M3	P3	
	a4	...	...	...	...
	a5	UP VLANn_a	VLANout_a	Mout	Pout	DOWN- DIRECTIONAL ROUTING PATH
	a6	VLANout_a	DOWN VLANn_a	Mn	Pn	
	a7	...	...	...	...
	a8	DOWN VLAN1_a	VLANin_a	Min	Pin	
ENTRY OF USER B (VIRTUAL LINK INFORMATION)	b1	VLANin_b	UP VLAN2_b	M2	P2	UP- DIRECTIONAL ROUTING PATH
	b2	UP VLAN2_b	UP VLAN3_b	M3	P3	
	b3	...	...	...	...
	b4	UP VLANn_b	VLANout_b	Mout	Pout	
		VLANout_b	DOWN VLANn_b	Mn	Pn	DOWN- DIRECTIONAL ROUTING PATH
		
		DOWN VLAN2_b	VLANin_b	Min	Pin	
		
ENTRY OF USER X (VIRTUAL LINK INFORMATION)	c1	VLANin_x	UP VLAN2_x	M2	P2	UP- DIRECTIONAL ROUTING PATH
	c2	UP VLAN2_x	UP VLAN3_x	M3	P3	
	c3	...	...	...	...
	c4	UP VLANn_x	VLANout_x	Mout	Pout	
		VLANout_x	DOWN VLANn_x	Mn	Pn	DOWN- DIRECTIONAL ROUTING PATH
		
		DOWN VLAN2_x	VLANin_x	Min	Pin	
		

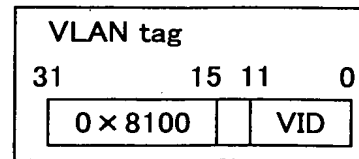


FIG.5

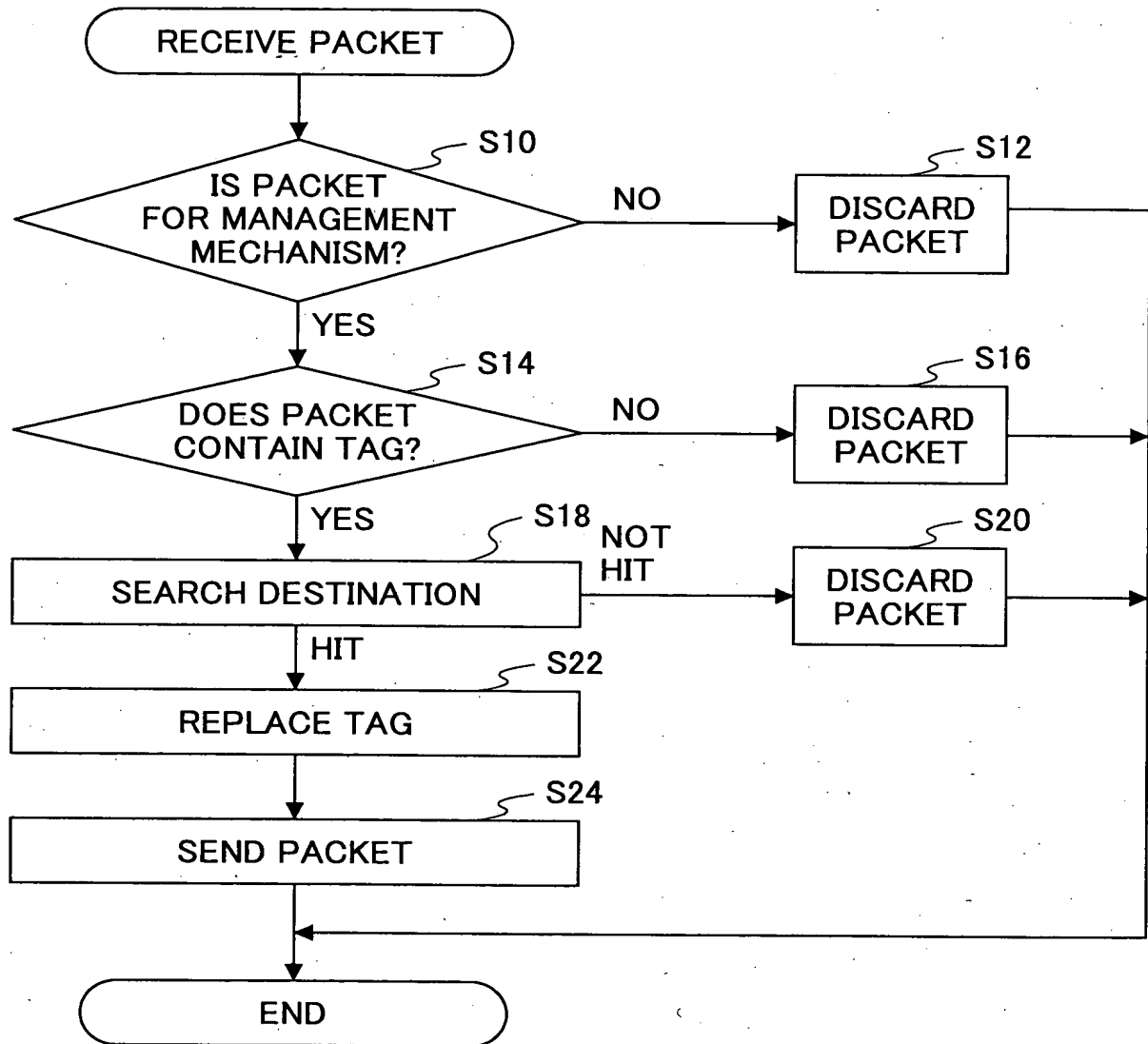


FIG.6

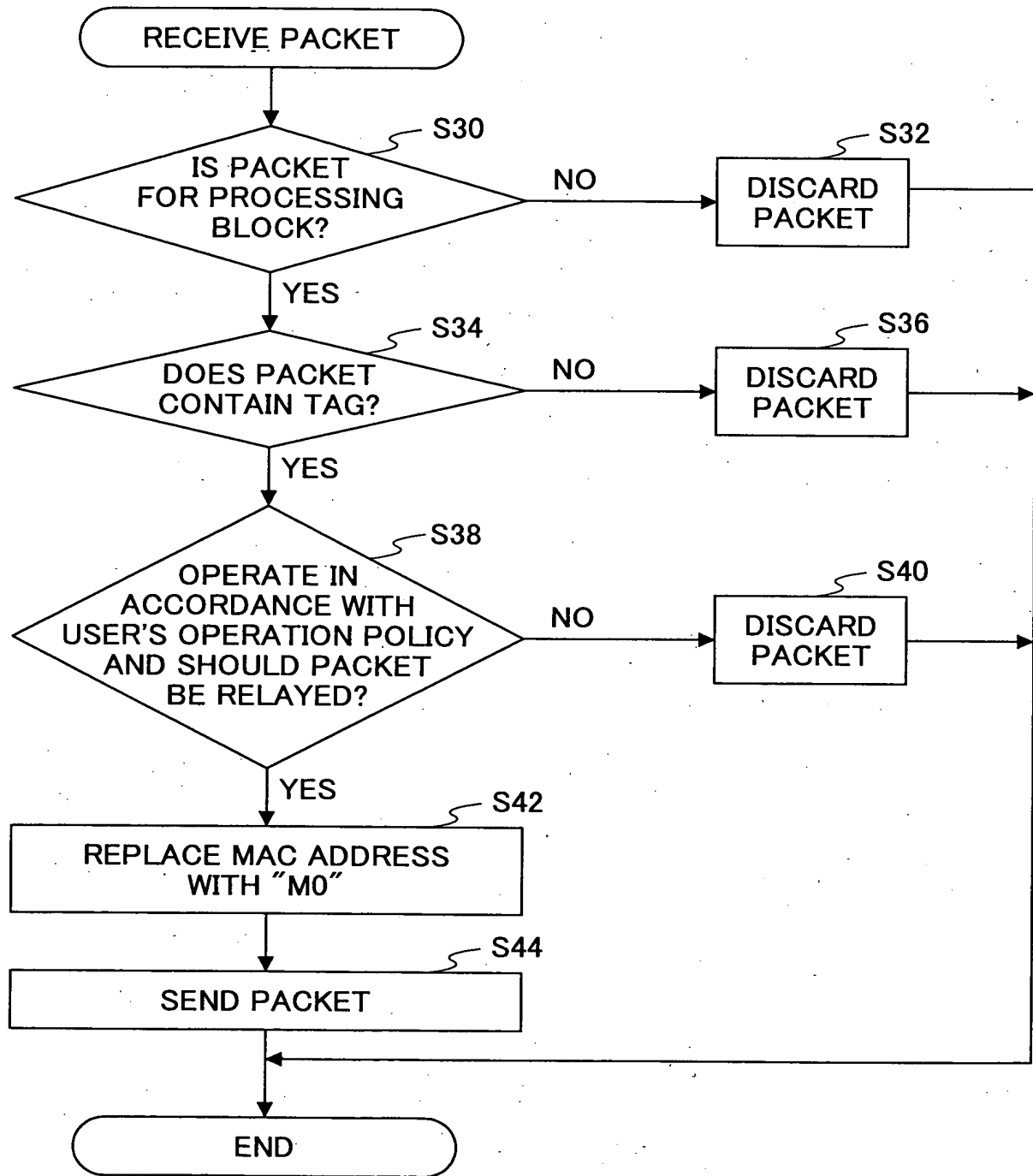


FIG.7

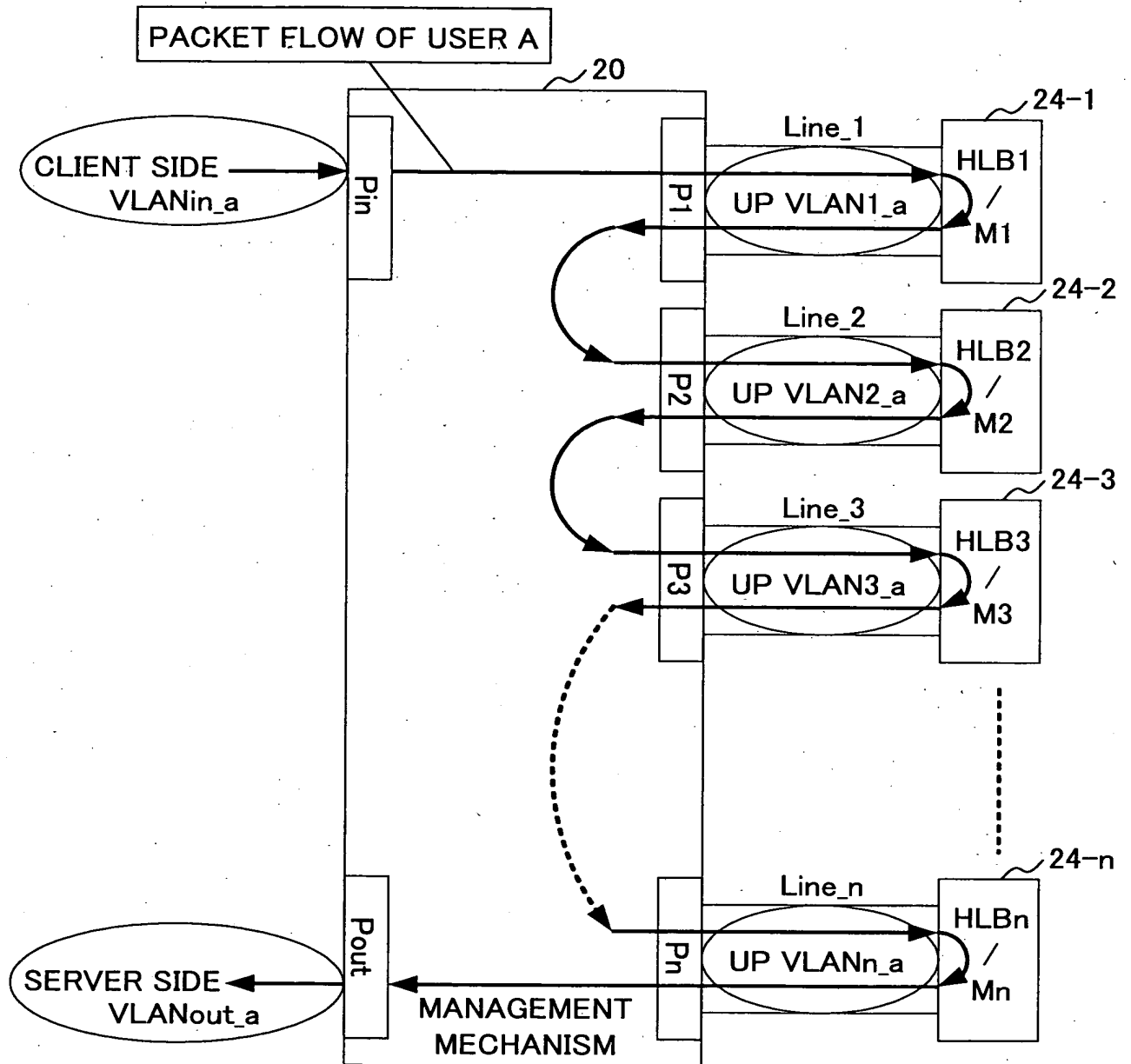


FIG.8

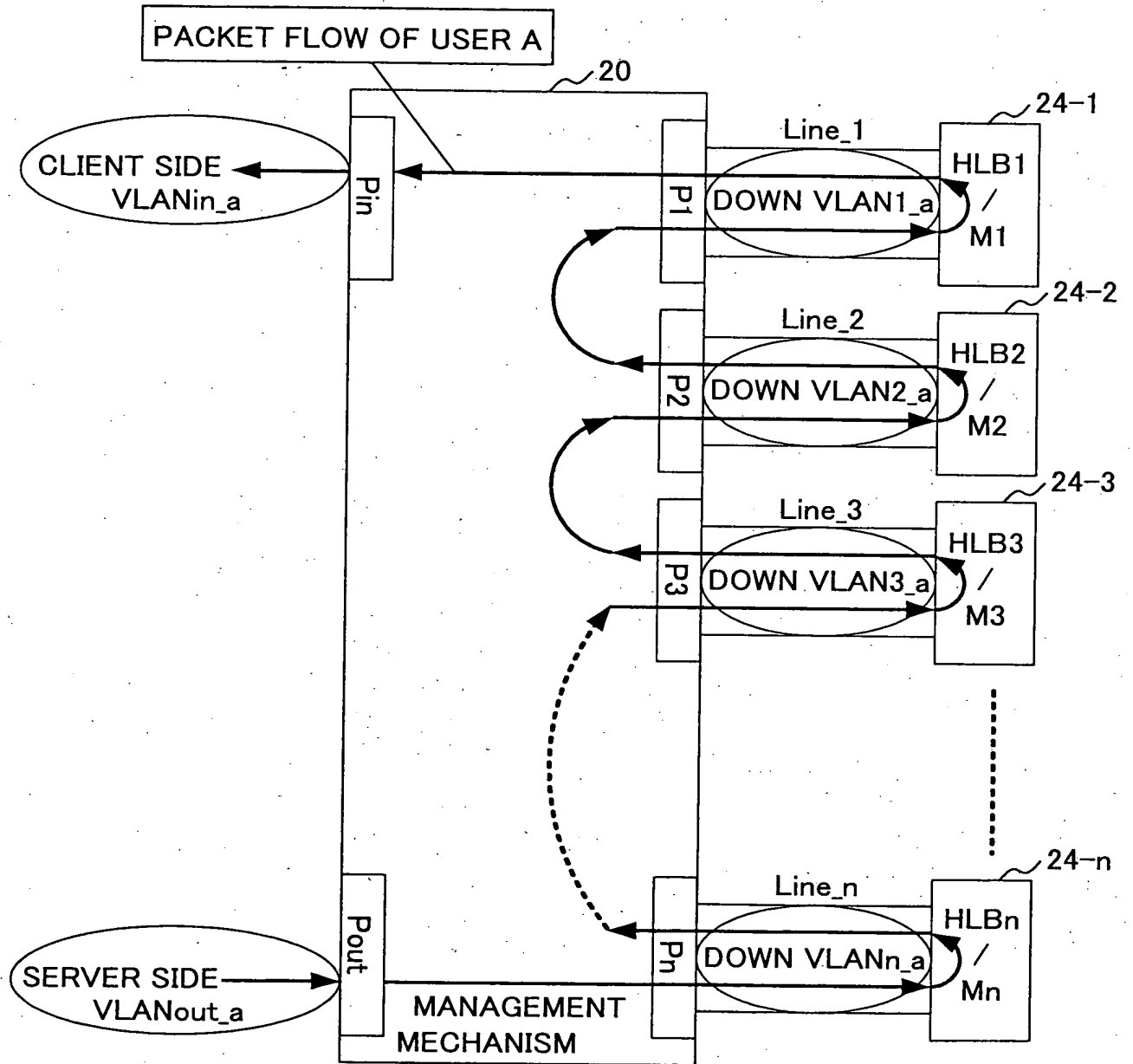


FIG.9

SEARCH KEY		SEARCH RESULT		
VLANtag (32bit)		VLANtag (32bit)	MAC ADDRESS (48bit)	PHYSICAL PORT
VLANin_a		UP VLAN1_a	M1	P1
UP VLAN1_a		UP VLAN2_a	M2	P2
UP VLAN2_a		UP VLAN3_a	M3	P3
...	
UP VLANn_a		VLANout_a	Mout	Pout
VLANout_a		DOWN VLANn_a	Mn	Pn
...	
DOWN VLAN1_a		VLANin_a	Min	Pin
b0 LINE	VLANin_b	UP VLAN1_b	M1	P1
	UP VLAN1_b	UP VLAN2_b	M2	P2
	UP VLAN2_b	UP VLAN3_b	M3	P3

b1	UP VLANn_b	VLANout_b	Mout	Pout
	VLANout_b	DOWN VLANn_b	Mn	Pn

	DOWN VLAN2_b	VLANin_b	Min	Pin
b2	...	...	...	...

	VLANin_x	UP VLAN3_x	M3	P3
	UP VLAN3_x	UP VLAN4_x	M4	P4
b3	...	...	...	...
	UP VLANn_x	VLANout_x	Mout	Pout
	VLANout_x	DOWN VLANn_x	Mn	Pn

b4	DOWN VLAN2_x	VLANin_x	Min	Pin